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IN THE CLAIMS:

Please amend the claims as set forth below. This listing of claims will replace all prior

versions, and listings, of claims in the application:

Claims 1-13 (Canceled).

Claim 14 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate with laser light while positioning a light-converging point at least

within the substrate, so as to form a substrate modified region due to multiphoton absorption

only within the substrate, the substrate modified region forming a starting point region for

cutting the object inside the object at a predetermined distance from a laser light incident face of

the object; and

after completion of forming the substrate modified region, applying a stress to the object

which causes cutting of the substrate and the laminate part along a line when along which the

object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate.

Claim 15 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate with laser light while positioning a light-converging point at least

within the substrate under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of $1 \mu s$ or less, so as to form a substrate modified region including a crack region only within the substrate, the substrate modified region forming a starting point region for cutting the object inside the object at a predetermined distance from a laser light incident face of the object; and

after completion of forming the substrate modified region, applying a stress to the object which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate.

Claim 16 (Currently Amended): A laser processing method comprising the steps of: irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least within the substrate under a condition with a peak power density of at least 1 x 10⁸ (W/cm²) at the light-converging point and a pulse width of 1 µs or less, so as to form a substrate modified region including a molten processed region only within the substrate, the substrate modified region forming a starting point region for cutting the object inside the object at a predetermined distance from a laser light incident face of the object; and

<u>which causes</u> cutting <u>of</u> the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate.

Claim 17 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate with laser light while positioning a light-converging point at least

within the substrate under a condition with a peak power density of at least 1 x 10⁸ (W/cm²) at

the light-converging point and a pulse width of 1 ns or less, so as to form a substrate modified

region including a refractive index change region which is a region with a changed refractive

index only within the substrate, the substrate modified region forming a starting point region for

cutting the object inside the object at a predetermined distance from a laser light incident face of

the object; and

after completion of forming the substrate modified region, applying a stress to the object

which causes cutting of the substrate and the laminate part along a line when along which the

object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate.

Claim 18 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate with laser light while positioning a light-converging point at least

within the substrate, so as to form a substrate modified region only within the substrate, the

substrate modified region forming a starting point region for cutting the object inside the object

at a predetermined distance from a laser light incident face of the object; and

after completion of forming the substrate modified region, applying a stress to the object

which causes cutting of the substrate and the laminate part along a line when along which the

object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate.

Claim 19 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate with laser light while positioning a light-converging point within

the substrate, irradiating the object with laser light while positioning a light-converging point

within the laminate part, so as to form a substrate modified region only within the substrate and a

laminate part modified region within the laminate part, each of the substrate modified region and

the laminate part modified region forming a starting point region for cutting the object inside the

object at a predetermined distance from a laser light incident face of the object; and

cutting the substrate and the laminate part along a line when a fracture generated in a

thickness direction of the substrate from each starting point region reaches a front face of the

laminate part and a rear face of the object substrate;

wherein the substrate modified region formed only within the substrate and the laminate

part modified region formed within the laminate part are separate from each other.

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Claim 20 (Canceled).

Claim 21 (Previously Presented): A laser processing method according to one of claims

18-19, wherein the substrate modified region includes at least one of a crack region which is a

region where a crack is generated within the substrate, a molten processed region which is a

region subjected to melting within the substrate, and a refractive index change region which is a

region with a changed refractive index within the substrate.

Claim 22 (Previously Presented): A laser processing method according to one of claims

14-19, wherein the laser light irradiating the substrate while positioning the light-converging

point therewithin irradiates the substrate from the rear face thereof.

Claim 23 (Previously Presented): A laser processing method comprising the steps of:

irradiating a substrate with laser light while positioning a light-converging point within

the substrate, so as to form a modified region only within the substrate, the modified region

forming a starting point region for cutting the substrate inside the substrate at a predetermined

distance from a laser light incident face of the substrate; and

providing a laminate part on a front face of the substrate after forming the starting point

region; and

cutting the substrate and the laminate part along a line when a fracture generated in a

thickness direction of the substrate from the starting point region reaches a front face of the

laminate part and a rear face of the substrate.

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Claim 24 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate which is made of a semiconductor material and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least with the substrate under a condition with a peak power density of at least $1 \times 10^8 \, (\text{W/cm}^2)$ at the light-converging point and a pulse width of $1 \, \mu s$ or less, so as to form a substrate modified region only within the substrate, the substrate modified region forming a starting point region for cutting the object inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate.

Claim 25 (Currently Amended): A laser processing method comprising the steps of:

irradiating an object to be processed comprising a substrate which is made of a piezoelectric material and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least within the substrate under a condition with a peak power density of at least $1 \times 10^8 \, (\text{W/cm}^2)$ at the light-converging point and a pulse width of 1 us or less, so as to form a substrate modified region only within the substrate, the substrate

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modified region forming a starting point region for cutting the object inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate.

Claim 26 (Currently Amended): A laser processing method comprising the steps of: irradiating an object to be processed comprising a substrate which is made of a semiconductor material and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least within the substrate, so as to form a substrate modified region including a molten processed region only within the substrate, the substrate modified region forming a starting point region for cutting the object inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate.

Claim 27 (Currently Amended): A laser processing method according to one of claims 14 to 19, wherein the substrate modified region is formed within the substrate such that the substrate modified region shifts is offset from the center position of the object in the thickness direction toward a rear face of the substrate.

Claim 28 (Previously Presented): A laser processing method according to claim 27, further comprising the step of applying stress to the object from the laminate part side after the step of forming the starting point region for cutting, so as to cut the object along the line.

Claim 29 (Currently Amended): A laser processing method according to one of claims 14 to 19, wherein the substrate modified region is formed within the substrate such that the modified region shifts is offset from the center position of the object in the thickness direction toward the front face of the substrate.

Claim 30 (Previously Presented): A laser processing method according to claim 29, further comprising the step of applying stress to the object from the opposite side of the laminate part after the step of forming the starting point region for cutting, so as to cut the object along the line.

Claim 31 (Previously Presented): A laser processing method according to claim 19, wherein the substrate and the laminate part are a plurality of substrates formed while abutting.

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Claim 32 (Previously Presented): A laser processing method according to claim 19,

wherein the substrate and the laminate part are a plurality of substrates attached to each other

while forming a gap therebetween.

Claim 33 (Previously Presented): A laser processing method according to claim 19,

wherein the modified regions formed within the substrate and the laminate part overlap with each

other along the line, when viewed from the thickness direction of the object.

Claim 34 (Previously Presented): A laser processing method according to one of claims

14 to 19, wherein the object comprises the substrate and the laminate part, the laminate part

includes a first laminate part which is an oxide film disposed on the front face of the substrate

and a second laminate part disposed on a front face of the first laminate part.

Claim 35 (Previously Presented): A laser processing method according to one of claims

14 to 19, wherein the object comprises the substrate which is a glass substrate and the laminate

part which is a glass substrate.

Claim 36 (Previously Presented): A laser processing method according to one of claims

14 to 19, wherein the object comprises the substrate and the laminate part which is a laminated

functional film.

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Claim 37 (Previously Presented): A laser processing method according to one of claims

14 to 19, further comprising the step of cutting the object along the line from the starting point

region for cutting.

Claim 38 (Previously Presented): A laser processing method according to one of claims

24 to 26, further comprising the step of cutting the object along the line from the starting point

region for cutting.

Claim 39 (Currently Amended): A laser processing method comprising the steps of:

providing a front face of a substrate with a laminate part, the substrate having a starting

point region for cutting formed only within the substrate, the starting point region for cutting

formed by a substrate modified region formed at a position of a light-converging point in

irradiation of laser light; and

cutting the substrate and the laminate part along a line when a fracture generated in a

thickness direction of the substrate from the starting point region reaches a front face of the

laminate part and a rear face of the substrate.

Claim 40 (Canceled).

Claim 41 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

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irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point at least within the substrate, so as to form a substrate modified region due to multiphoton absorption only within the substrate, the substrate modified region forming a starting point region for cutting the object, the substrate modified region being located inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate in order to provide at least one manufactured semiconductor device.

Claim 42 (Currently Amended): A method of manufacturing a semiconductor device formed using a laser processing method, the manufacturing method comprising:

irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point at least within the substrate under a condition with a peak power density of at least 1×10^8 (W/cm²) at the light-converging point and a pulse width of $1 \mu s$ or less, so as to form a substrate modified region including a crack region only within the substrate, the substrate modified region forming a

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starting point region for cutting the object, the substrate modified region being located inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate in order to provide at least one manufactured semiconductor device.

Claim 43 (Currently Amended): A method of manufacturing a semiconductor device formed using a laser processing method, the manufacturing method comprising:

irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point at least within the substrate under a condition with a peak power density of at least 1 x 10⁸ (W/cm²) at the light-converging point and a pulse width of 1 µs or less, so as to form a substrate modified region including a molten processed region only within the substrate, the substrate modified region forming a starting point region for cutting the object, the substrate modified region being located inside the object at a predetermined distance from a laser light incident face of the object; and

<u>which causes</u> cutting <u>of</u> the substrate and the laminate part along a line <u>when along which the</u>

<u>object is to be cut so that</u> a fracture generated in a thickness direction of the substrate from the

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starting point region reaches a front face of the laminate part and a rear face of the object

substrate in order to provide at least one manufactured semiconductor device.

Claim 44 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate, the substrate and the laminate part having at least one

semiconductor device, with laser light while positioning a light-converging point at least within

the substrate under a condition with a peak power density of at least 1 x 108 (W/cm²) at the light-

converging point and a pulse width of 1 ns or less, so as to form a substrate modified region

including a refractive index change region which is a region with a changed refractive index only

within the substrate, the substrate modified region forming a starting point region for cutting the

object, the substrate modified region being located inside the object by a predetermined distance

from a laser light incident face of the object; and

after completion of forming the substrate modified region, applying a stress to the object

which causes cutting of the substrate and the laminate part along a line when along which the

object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate in order to provide at least one manufactured semiconductor device.

Claim 45 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

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irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point at least within the substrate, so as to form a substrate modified region only within the substrate, the substrate modified region forming a starting point region for cutting the object, the substrate modified region being located inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate in order to provide at least one manufactured semiconductor device.

Claim 46 (Currently Amended): A method of manufacturing a semiconductor device formed using a laser processing method, the manufacturing method comprising:

irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point within the substrate, irradiating the object with laser light while positioning a light-converging point within the laminate part, so as to form a substrate modified region only within the substrate and a laminate part modified region within the laminate part, each of the substrate modified region and

the laminate part modified region forming a starting point region for cutting the object located

inside the object at a predetermined distance from a laser light incident face of the object; and

cutting the substrate and the laminate part along a line when a fracture generated in a

thickness direction of the substrate from the starting point region reaches a front face of the

laminate part and a rear face of the object substrate in order to provide at least one manufactured

semiconductor device;

wherein the substrate modified region formed only within the substrate and the laminate

part modified region formed within the laminate part are separate from each other.

Claim 47 (Canceled).

Claim 48 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

irradiating a substrate, the substrate with laser light while positioning a light-converging

point within the substrate, so as to form a substrate modified region only within the substrate, the

modified region forming a starting point region for cutting the substrate, the modified region

being located only inside the substrate at a predetermined distance from a laser light incident

face of the substrate;

providing a laminate part on a front face of the substrate after forming the starting point

region; and

cutting the substrate and the laminate part along a line when a fracture generated in a

thickness direction of the substrate from the starting point region reaches a front face of the

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laminate part and a rear face of the substrate in order to provide at least one manufactured

semiconductor device.

Claim 49 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

irradiating an object to be processed comprising a substrate and a laminate part disposed

on a front face of the substrate, the substrate and the laminate part having at least one

semiconductor device, with laser light while positioning a light-converging point at least with the

substrate under a condition with a peak power density of at least 1 x 108 (W/cm²) at the light-

converging point and a pulse width of 1 us or less, so as to form a substrate modified region only

within the substrate, the substrate modified region forming a starting point region for cutting the

object, the substrate modified region being located inside the object at a predetermined distance

from a laser light incident face of the object; and

after completion of forming the substrate modified region, applying a stress to the object

which causes cutting of the substrate and the laminate part along a line when along which the

object is to be cut so that a fracture generated in a thickness direction of the substrate from the

starting point region reaches a front face of the laminate part and a rear face of the object

substrate in order to provide at least one manufactured semiconductor device.

Claim 50 (Currently Amended): A method of manufacturing a semiconductor device

formed using a laser processing method, the manufacturing method comprising:

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irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate, the substrate and the laminate part having at least one semiconductor device, with laser light while positioning a light-converging point at least within the substrate, so as to form a substrate modified region including a molten processed region only within the substrate, with the substrate modified region forming a starting point region for cutting the object, the molten processed region being located inside the object at a predetermined distance from a laser light incident face of the object; and

which causes cutting of the substrate and the laminate part along a line when along which the object is to be cut so that a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the laminate part and a rear face of the object substrate in order to provide at least one manufactured semiconductor device.

Claim 51 (Currently Amended): A method of manufacturing a semiconductor device formed using a laser processing method, the manufacturing method comprising:

providing a front face of a substrate with a laminate part, the substrate and the laminate part having at least one semiconductor device, the substrate having a starting point region for cutting formed only within the substrate, the starting point region for cutting formed by a substrate modified region formed at a position of a light-converging point in irradiation of laser light; and

cutting the substrate and the laminate part along a line when a fracture generated in a thickness direction of the substrate from the starting point region reaches a front face of the

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laminate part and a rear face of the substrate in order to provide at least one manufactured

semiconductor device.

Claim 52 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 45, wherein the object is irradiated with laser light while positioning a light-

converging point within the laminate part, so as to form a laminate part modified region within

the laminate part in the irradiating step, and the substrate modified region formed within the

substrate and the laminate part modified region formed within the laminate part are separated

from each other.

Claim 53 (Canceled).

Claim 54 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 48, wherein the object is irradiated with laser light while positioning a light-

converging point within the laminate part, so as to form a laminate part modified region within

the laminate part in the irradiating step, and the substrate modified region formed within the

substrate and the laminate part modified region formed within the laminate part are separated

from each other.

Claim 55 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 50, wherein the object is irradiated with laser light while positioning a light-

converging point within the laminate part, so as to form a laminate part modified region within

the laminate part in the irradiating step, and the substrate modified region formed within the

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substrate and the laminate part modified region formed within the laminate part are separated

from each other.

Claim 56 (Previously Presented): A method of manufacturing a semiconductor device

according to claim 51, wherein the object is irradiated with laser light while positioning a light-

converging point within the laminate part, so as to form a laminate part modified region within

the laminate part in the irradiating step, and the substrate modified region formed within the

substrate and the laminate part modified region formed within the laminate part are separated

from each other.

Claim 57 (Currently Amended): The method according to any one of claims 14-19 and

23-26, wherein the irradiation of the laser light is performed without making any groove on a

laser incident face of the substrate and to make so that the substrate modified region and has a

non-modified region located at least one of above and below the substrate modified region within

the substrate and in a laser light incident direction.

Claim 58 (Currently Amended): The method according to any one of claims 14-19 and

23-26, wherein the irradiation of the laser light is performed to make form the substrate modified

region without intentionally exposing the substrate modified region in at least one of a front and

back faces of the substrate into which the laser light enters only within the substrate.

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Claim 59 (Currently Amended): The method according to any one of claims 41-46 and

48-50, wherein the irradiation of the laser light is performed without making any groove on a

laser incident face of the substrate and to make so that the substrate modified region and has a

non-modified region located at least one of above and below the substrate modified region within

the substrate and in a laser light incident direction.

Claim 60 (Currently Amended): The method according to any one of claims 41-46 and

48-50, wherein the irradiation of the laser light is performed to make form the substrate modified

region without intentionally exposing the modified region in at least one of a front face and a

back face of only within the substrate.

Claim 61 (Withdrawn): The method according to claim 58, wherein the at least one of

the front and back face of the substrate is a surface of the substrate into which the laser light

enters.

Claim 62 (Withdrawn): The method according to claim 60, wherein the at least one of

the front and back face of the substrate is a surface of the substrate into which the laser light

enters.